Toxicology, 66 (1991) 355—356
Elsevier Scientific Publishers Ireland Ltd.

TOXICOLOGY

VOLUME CONTENTS

Volume 66 (1991)

Methods for in vitro skin absorption studies of a lipophilic toxin produced by red tide **(A comparison between in vivo and in vitro evaluation)**
by B.W. Kemppainen, W.G. Reifenrath, R.G. Stafford and M. Mehta (Auburn, AL and San Francisco, CA) ..... 1—17

Effect of calcium antagonism by nifedipine and chlorpromazine on acute *N*-(3,5-dichlorophenyl)succinimide-induced nephrotoxicity in Fischer 344 rats **(Chlorpromazine pretreatment attenuates all aspects of NDPS-induced nephrotoxicity)**
by G.O. Rankin, M.A. Valentovic, V.J. Teets, D.W. Nicoll, C.H. Sutherland and P.I. Brown (Huntington, WV) ..... 19—34

Effect of sodium butyrate on metallothionein induction and cadmium cytotoxicity in ROS 17/2.8 cells **(Sodium butyrate increases metallothionein synthesis in ROS 17/2.8 cells and affords protection against Cd toxicity)**
by D.J. Thomas, C.R. Angle, S.A. Swanson and T.C. Caffrey (Omaha, NE) ..... 35—46

Interactions among nephrotoxicants: *N*-(3,5-dichlorophenyl)succinimide and cephaloridine **(Temporal sequence of exposure to the two nephrotoxins is critical in determining attenuation or aggravation of the lesions)**
by G.O. Rankin, V.J. Teets, D.W. Nicoll and P.I. Brown (Huntington, WV) ..... 47—62

Vanadate-induced toxicity towards isolated perfused rat livers: the role of lipid peroxidation **(Cellular effects of vanadate may be mediated by lipid peroxidation)**
by M. Younes and O. Strubelt (Lübeck, Germany) ..... 63—74

Suppression of adrenocortical function in female mice by lindane (γ-HCH) **(Reduction in weight of the adrenals and regression of the cortex were noticed)**
by P. Lahiri and S. Sircar (Calcutta, India) ..... 75—79

Protective effect of zinc in the hepatotoxicity of bromobenzene and acetaminophen **(Zinc seems to protect against the effects of hepatotoxins)**
by J.A. Szymańska, E.A. Świetlicka and J.K. Piotrowski (Lodż, Poland) ..... 81—91

Distribution of terbium and increase in calcium concentrations in organs of mice administered with terbium chloride **(Terbium is found mainly in the liver and Ca increases proportional with terbium)**
by A. Shinohara and M. Chiba (Tokyo, Japan) ..... 93—103

Time course of testicular degeneration in rats induced by a synthetic retinoid (Ro 23-2895) and evidence for induction of hypovitaminosis A in the testes **(Synthetic retinoids may exert toxicity by means of alterations in normal retinol homeostasis)**
by T. Bosakowski, A.A. Levin and S.K. Durham (Nutley, NJ) ..... 105—118

Book Review ..... 119—120

Biochemical effects of combined gases of nitrogen dioxide and ozone. IV. Changes of lipid peroxidation and antioxidative protective systems in rat lungs upon life span exposure **(A combined exposure to ozone and nitrogen dioxide produces a synergistic increase in pulmonary lipid peroxidation)**
by M. Sagai and T. Ichinose (Ibaraki, Japan) ..... 121—132

Reduced activities of key enzymes of gluconeogenesis as possible cause of acute toxicity of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD) in rats **(Lethal appetite suppression and reduced activity of PEPCK cause the acutely toxic effect)**
by L.W.D. Weber, M. Lebofsky, B.U. Stahl, J.R. Gorski, G. Muzi and K. Rozman (Kansas City, KS and Neuherberg, F.R.G.) ..... 133—144

Comparison of effects of Aroclors 1016 and 1260 on non-human primate catecholamine function **(Lightly chlorinated congeners are more effective in reducing central dopamine concentrations than are more highly chlorinated congeners)**
by R.F. Seegal, B. Bush and K.O. Brosch (Albany, NY) ..... 145—163

Relationship between glutathione content and formation of organic solvent-soluble fluorescent pigments in mice treated with chloroquine **(Glutathione deficiency exacerbates formation of flourescent pigments after chloroquine administration)**
by K. Nakagawa (Kyoto, Japan) ..... 165—173
Presence of the 4 S polycyclic hydrocarbon-binding protein in H4-II-E cells **(The protein may play a role in the PAH-induced expression of cytochrome *P*450IA1 gene expression)**
by A. Raha, V. Reddy, L.C. Xu, W.H. Houser and E. Bresnick (Omaha, NE) ..... 175—186
Comparison of the critical concentration and critical volume hypotheses to model non-specific toxicity of individual compounds **(This is a theoretical comparison between two hypotheses to describe non-specific toxicities)**
by M. St. J. Warne, D.W. Connell and D.W. Hawker (Nathan, Australia) ..... 187—195
Effect of orotic acid on the generation of reactive oxygen and on lipid peroxidation in rat liver **(A prooxidative effect of orotic acid can be excluded)**
by W. Scholz, A. Wolf, W. Kunz, R. Willenbrock and C. Steffen (Heidelberg and Berlin, F.R.G.) ..... 197—212
Characterization of bolesatine, a toxic protein from the mushroom *Boletus satanas* Lenz and its effects on kidney cells **(Bolesatine inhibits protein synthesis possibly by acting on the peptidyl elongation step)**
by O. Kretz, E.E. Creppy and G. Dirheimer (Strasbourg and Bordeaux, France) ..... 213—224
Cytotoxicity of linoleic acid peroxide, malondialdehyde and 4-hydroxynonenal towards human fibroblasts **(Of the three compounds the peroxide is the most cytotoxic and alpha-tocopherol possibly affords slight protection)**
by C. Michiels and J. Remacle (Namur, Belgium) ..... 225—234
Book Review 235
Announcement 237

Roles of dosage, pharmacokinetics, and cellular sensitivity to damage in the selective toxicity of cyclophosphamide towards B and T cells in development **(B cells appear to be inherently more susceptible to the acute cytotoxic action of cyclophosphamide than are T cells)**
by R.R. Misra and S.E. Bloom (Ithaca, NY) ..... 239—256
Role of biotransformation in the in vitro preimplantation embryotoxicity of naphthalene **(Naphthalene may be a potentially embryotoxic and abortifacient component of polycyclic aromatic hydrocarbon mixtures)**
by P. Iyer, J.E. Martin and T.R. Irvin (College Station, TX) ..... 257—270
Dose-response relationship between dietary cadmium intake and metallothioneinuria in a population from a cadmium-polluted area of Japan **(A suggestion is made to define an upper average daily intake of Cd)**
by T. Kido, Z.A. Shaikh, H. Kito, R. Honda and K. Nogawa (Kingston, RI and Ishikawa and Chiba, Japan). 271—278
Oral vanadium administration to streptozotocin- diabetic rats has marked negative side-effects which are independent of the form of vanadium used **(The toxicity of vanadium outweights its potential value as an antidiabetic agent)**
by J.L. Domingo, M. Gomez, J.M. Llobet, J. Corbella and C.L. Keen (Reus, Spain and Davis, CA) ..... 279—287
Lung and blood superoxide dismutase activity in mercury vapor exposed rats: effect of *N*-acetylcysteine treatment **(*N*-Acetylcysteine seems to lower mercury concentrations in the lungs)**
by F. Livardjani, M. Ledig, P. Kopp, M. Dahlet, M. Leroy and A. Jaeger (Strasbourg, France) ..... 289—295
Comparative acute nephrotoxicity of salicylic acid, 2.3-dihydroxybenzoic acid, and 2,5-dihydroxybenzoic acid in young and middle aged Fischer 344 rats **(2,5-Dihydroxybenzoic acid appears to be the more nephrotoxic metabolite)**
by T.F. McMahon, S.A. Stefanski, R.E. Wilson, P.C. Blair, A-M. Clark and L.S. Birnbaum (Research Triangle Park, NC) ..... 297—311
Aluminum mobilization by desferrioxamine assessed by microdialysis of the blood, liver and brain **(DFO mobilizes more Al from the liver than from the brain)**
by R.A. Yokel, V. Lidums and U. Ungerstedt (Lexington, KY and Solna and Stockholm, Sweden) ..... 313—324
Cadmium inhibits EGF-induced DNA synthesis but increases cellular glutathione levels in NRK-49F cells **(Cd inhibition of EGF-stimulated DNA synthesis is not mediated by glutathione depletion)**
by Y.-J. Kang and M.D. Enger (Ames, IA) ..... 325—333
Book Review 335
Announcements ..... 337—339
Contents of journals relating to Toxicology ..... 341—348
Subject Index Volume 66 ..... 349—352
Author Index Volume 66 ..... 353—354
Contents Volume 66 ..... 355—356